

Administrative  
(Application No: AGRI/2015/40)

File No. BT/PR16530/NER/95/212/2015  
GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF BIOTECHNOLOGY  
(NER-BPMC)  
\*\*\*\*\*

Block-2, 7<sup>th</sup> Floor,  
CGO Complex, Lodhi Road  
New Delhi-110003  
Dated: 19 / 1 / 2017

**ORDER**

Sanction of the President is hereby accorded under Rule 18 of the Delegation of Financial Powers Rules, 1978 for the implementation of the project under 'DBT's Twinning programme for the NE' titled "Functional Genomics for Drought Tolerance in Assam Rice" by Prof. Sanjib Kumar Panda, Assam University, Silchar, Assam and Dr. Neeti Sanan Mishra, International Centre for Genetic Engineering & Biotechnology (ICGEB), New Delhi at a total cost of ₹ 61.75 lakhs (Rupees Sixty One Lakhs and Seventy Five Thousand Only) for a period of three years on the terms and conditions detailed as under:

**2.0 The Project:**

**2.1 Project Title: Functional Genomics for Drought Tolerance in Assam Rice**

**2.2 Project Investigators**

**2.2.1 Principal Investigator:  
(Parent Institute)**

**Prof. Sanjib Kumar Panda**  
Professor  
Department of Life Science & Bioinformatics  
Assam University, Silchar-788011, Assam

**2.2.2 Principal Investigator:  
(Collaborating Institute)**

**Dr. Neeti Sanan Mishra**  
Group Leader  
Department of Plant RNAi Biology  
International Centre for Genetic Engineering &  
Biotechnology (ICGEB), Aruna Asaf Ali Marg,  
New Delhi-110067.

**2.3 Objectives:**

1. Selection of drought stress sensitive and tolerant Rice of Assam –
2. Profiling the miRNAs in the drought sensitive and tolerant phenotyped Assam rice to identify drought-specific rice miRNA biomarkers
3. Expression profiling of the miRNA targets to identify the drought stress deregulated pathways
4. Functional validation of selected miRNAs

**2.4 Time Schedule:**

The duration of the project is **three years** from the date of issue of sanction order.

## 2.5 Equipment Details:

### 2.5.1 Assam University, Silchar, Assam

Sl. No.	Description of equipment	Grant Recommended (₹ in lakhs)
1	MUPID Gel Electrophoresis unit	0.55
2	Incubator Shaker Temperature controlled	1.99
3	Horizontal Laminar Flow cabinet	0.90
4	Computer Workstation for high-throughput data analysis	1.56
<b>Total</b>		<b>5.00</b>

### 2.5.2 International Centre for Genetic Engineering & Biotechnology (ICGEB), New Delhi

Sl. No.	Description of equipment	Grant Recommended (₹ in lakhs)
1.	Ice Flaking Machine	4.53
<b>Total</b>		<b>4.53</b>

## 2.6 Manpower:

### Fellowship Conditions:

A year wise detail of manpower as proposed has been furnished below. HRA will be as per the Govt. Norms, an indication as stated below for the JRF and SRF's emoluments will be provided as a part of sanction order. JRF shall be ₹ 25,000/- + HRA for the 1st two years and ₹ 28,000/- + HRA for the 3rd year for SRF and applicable, (JRF - Post graduate Degree in Basic Science with NET qualification or graduate degree in Professional course with NET qualification or post graduate degree in professional course)

JRF without NET qualification shall be ₹ 12,000/- + HRA for the 1st two years and ₹ 14,000/- + HRA for the 3rd year for SRF

- For JRF/SRF/RA salary is as per the revised DST OM SR/S9/Z-09/2012, dated October 21, 2014.
- For Project Assistant salary is as per the revised DST OM C.30011/1/2007-IFD, dated 21<sup>st</sup> July 2008.

### 2.6.1 Assam University, Silchar, Assam

(₹ in lakhs)						
S. No.	Position (No.)	Emolument	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total
1.	JRF/SRF (1)	JRF @ ₹ 25,000/- + 10 % HRA for the 1st & 2nd yr SRF @ ₹ 28,000/- + 10 % HRA for 3rd yr	3.30	3.30	3.70	10.30
<b>Total</b>			<b>3.30</b>	<b>3.30</b>	<b>3.70</b>	<b>10.30</b>

2.6.2 International Centre for Genetic Engineering & Biotechnology (ICGEB), New Delhi  
(₹ in lakhs)

S. No.	Position (No.)	Emolument	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total
1.	JRF/SRF (1)	JRF @ ₹ 25,000/- + 30 % HRA for the 1st & 2nd yr SRF @ ₹ 28,000/- + 30 % HRA for 3rd yr	3.90	3.90	4.37	12.17
Total			3.90	3.90	4.37	12.17

2.7 Budget Estimate:

The total cost of the project is ₹ 61.75 lakhs (Rupees Sixty One Lakhs and Seventy Five Thousand Only) as per budget summary given below:

2.7.1 Assam University, Silchar, Assam

Heads	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total
<b>I. Non-Recurring</b> (Equipments and accessories)	5.00	0.00	0.00	5.00
<b>Sub Total- I</b>	5.00	0.00	0.00	5.00
<b>II. Recurring</b>				
1. Manpower	3.30	3.30	3.70	10.30
2. Consumables	5.00	5.00	5.00	15.00
3. Travel	0.75	0.75	0.75	2.25
4. Contingency	0.50	0.50	0.50	1.50
5. Overhead charges	1.00	1.00	1.00	3.00
<b>Sub Total- II (1-5)</b>	10.55	10.55	10.95	32.05
<b>GRAND TOTAL (I+II)</b>	15.55	10.55	10.95	37.05

2.7.2 International Centre for Genetic Engineering & Biotechnology (ICGEB), New Delhi  
(₹ in lakhs)

Heads	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year	Total
<b>I. Non-Recurring</b> (Equipments and accessories)	4.53	0.00	0.00	4.53
<b>Sub Total- I</b>	4.53	0.00	0.00	4.53
<b>II. Recurring</b>				
1. Manpower	3.90	3.90	4.37	12.17
2. Consumables	2.00	3.00	2.00	7.00
3. Travel	0.20	0.20	0.20	0.60
4. Contingency	0.10	0.20	0.10	0.40
5. Overhead charges	0.00	0.00	0.00	0.00
<b>Sub Total- II (1-5)</b>	6.20	7.30	6.67	20.17
<b>GRAND TOTAL (I+II)</b>	10.73	7.30	6.67	24.70

- I. Grand total for 3 years (37.05 + 24.70) = ₹ 61.75 lakhs  
II. Total for 1<sup>st</sup> year release (15.55 + 10.73) = ₹ 26.28 lakhs

**2.8 Other Terms & Conditions:**

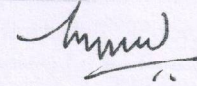
- 2.8.1 The other terms and conditions governing this sanction are attached at **Annexure-I**.
- 2.8.2 A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institute on a ₹ 100/- stamp paper in the format given at **Annexure II** and the subsequent releases will be made only after signing of MoA by the grantee institute and its acceptance by DBT. All pages need to be signed by the PI and the forwarding authority and the MoA returned to DBT within 30 days of issue of this letter.
- 2.8.3 The Non-recurring items must be procured and installed within 6 month period from the date of sanction.
- 2.8.4 In case the amount of grant-in-aid is refunded, the whole or a part amount of the grant, with an interest at 10% per annum there on shall be recovered.
- 2.8.5 No international travel will be undertaken from the sanctioned project grant unless specified otherwise.
- 2.8.6 The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and statement of Expenditure. The interest so earned will be treated as created to the institute / Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Account.

**2.9 Additional Terms & Conditions, specific for Twinning R&D program for NER:**

- 2.9.1 Both NER & Rest of India (RoI), Institutions scientists should work together for the objectives stated in the sanction of the project and any deviation from this would attract closure of the project at any point of time.
- 2.9.2 In the project review meetings, both the PI's from NER & RoI Institutions should participate & make presentation.
- 2.9.3 The outcomes of the project such as research papers, patents, copy rights etc. should be made jointly.
- 2.9.4 The NER Scientists are to be trained at the collaborating institute appropriately to empower the NER Scientists.
- 2.9.5 The project personal such as Research Associate, JRF/SRF, Research Assistant are also to be trained at least once in the collaborating national institute.
- 2.9.6 The collaborating institute scientist should visit NER institutions more frequently to guide NER scientists in design and conduct of experiments.
- 2.10 This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their Dy No. 102/I.F.D/SAN/2122/2016-2017 Dated 22/08/2016.
- 2.10.1 This sanction order has been noted at Serial No..... in the Register of Grants.

2.10.2 The accounts of grantee institution shall be open to inspection by sanctioning auditory / audit.

3.0 M/S Biotech Consortium India Ltd (BCIL), Anuvrat Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002, is administrating the North Eastern Region Biotechnology Programme Management Cell (NER-BPMC) of the DBT.

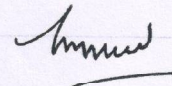


(Dr. T. Madhan Mohan)  
Advisor, DBT

To,  
The Pay & Accounts Officer,  
Department of Biotechnology,  
New Delhi - 110003

Copy to:

1. The Principal Director of Audit (Scientific Department), AGCR Building, New Delhi - 110 002.
2. Cash Section, DBT (For information only).
3. Sanction Folder.
4. IFD, DBT.
5. The Registrar, Assam University, Silchar-788011, Assam.
6. The Vice Chancellor, Assam University, Silchar-788011, Assam.
7. The Director, International Centre for Genetic Engineering & Biotechnology (ICGEB), Aruna Asaf Ali Marg, New Delhi-110067.
8. Prof. Sanjib Kumar Panda, Professor, Department of Life Science & Bioinformatics, Assam University, Silchar-788011, Assam.
9. Dr. Neeti Sanan Mishra, Group Leader, Department of Plant RNAi Biology, International Centre for Genetic Engineering & Biotechnology (ICGEB), Aruna Asaf Ali Marg, New Delhi-110067.
10. Concern file.
11. The Managing Director, Biotech Consortium India Limited, (NER-BPMC), 5<sup>th</sup> Floor, Anuvart Bhawan, 210, Deen Dayal Upadhyay Marg, New Delhi- 110002.



(Dr. T. Madhan Mohan)  
Advisor, DBT